

ABSTRACT OF THE DISCLOSURE

1 The invention relates to a method of and to an
2 apparatus for ascertaining the transverse dimensions,
3 such as diameters, of one or more rod-shaped articles,
4 for example, continuous or finite-length cigarette rods
5 and/or other rod-shaped smokers' products. When the me-
6 thod and/or the apparatus is utilized to ascertain the
7 transverse dimensions of a single rod-shaped article,
8 such as a continuous cigarette rod which is stationary,
9 which turns about its longitudinal axis and/or which is
10 moved lengthwise, the apparatus can employ at least one
11 radiation source which emits a beam of radiation against
12 the stationary or moving article whereby the article
13 intercepts a first portion of the beam and permits the
14 remaining portion to impinge upon a device which evaluat-
15 es the non-intercepted portion of the beam and generates
16 signals denoting the diameter of the article. The appa-
17 ratus also employs an arrangement, such as a motor and
18 a belt-and-pulley device, for selectively altering the
19 orientation of the beam and the article relative to each
20 other; this enables the evaluating device to furnish
21 signals which can be processed to indicate whether or
22 not the article is round or out of round.